

Yin Xu

List of Publications by Year in descending order

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papers

582
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687220

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docs citations

47
times ranked

464
citing authors

#	ARTICLE	IF	CITATIONS
1	Compact and high extinction ratio polarization beam splitter using subwavelength grating couplers. <i>Optics Letters</i> , 2016, 41, 773.	1.7	86
2	High-performance room temperature NO ₂ gas sensor based on visible light irradiated In ₂ O ₃ nanowires. <i>Journal of Alloys and Compounds</i> , 2021, 867, 159076.	2.8	74
3	Compact Polarization Beam Splitter for Silicon-Based Slot Waveguides Using an Asymmetrical Multimode Waveguide. <i>Journal of Lightwave Technology</i> , 2014, 32, 4884-4890.	2.7	36
4	A Compact Hybrid Plasmonic Polarization Rotator for Silicon-Based Slot Waveguides. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 1609-1612.	1.3	35
5	A Compact TE-Pass Polarizer for Silicon-Based Slot Waveguides. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 2071-2074.	1.3	32
6	Ultracompact and high efficient silicon-based polarization splitter-rotator using a partially-etched subwavelength grating coupler. <i>Scientific Reports</i> , 2016, 6, 27949.	1.6	32
7	Design and numerical study of a compact, broadband and low-loss TE-pass polarizer using transparent conducting oxides. <i>Optics Express</i> , 2016, 24, 15373.	1.7	26
8	Hybrid Graphene-Silicon Based Polarization-Insensitive Electro-Absorption Modulator with High-Modulation Efficiency and Ultra-Broad Bandwidth. <i>Nanomaterials</i> , 2019, 9, 157.	1.9	22
9	Design of a compact silicon-based slot waveguide crossing. <i>Applied Optics</i> , 2013, 52, 3737.	0.9	20
10	Compact polarization rotator for silicon-based slot waveguide structures. <i>Applied Optics</i> , 2014, 53, 2390.	0.9	20
11	Proposal for Compact Polarization Splitter Using Asymmetrical Three-Guide Directional Coupler. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 654-657.	1.3	20
12	Design of a compact and integrated TM-rotated/TE-through polarization beam splitter for silicon-based slot waveguides. <i>Applied Optics</i> , 2016, 55, 611.	2.1	20
13	Mid-infrared self-similar compression of picosecond pulse in an inversely tapered silicon ridge waveguide. <i>Optics Express</i> , 2017, 25, 33439.	1.7	20
14	Design of a graphene-based dual-slot hybrid plasmonic electro-absorption modulator with high-modulation efficiency and broad optical bandwidth for on-chip communication. <i>Applied Optics</i> , 2018, 57, 3260.	0.9	14
15	An Ultracompact Polarization-Insensitive Silicon-Based Strip-to-Slot Power Splitter. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 536-539.	1.3	13
16	Design of a compact polarization demultiplexer for silicon-based slot waveguides. <i>Applied Optics</i> , 2014, 53, 8305.	2.1	12
17	Design of a compact silicon-based TM-polarized mode-order converter based on shallowly etched structures. <i>Applied Optics</i> , 2019, 58, 9075.	0.9	10
18	On-chip silicon shallowly etched TM ₀ -to-TM ₁ mode-order converter with high conversion efficiency and low modal crosstalk. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 1290.	0.9	10

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19	Ultracompact and Broadband Silicon-Based Strip-to-Slot Mode Converter. IEEE Photonics Technology Letters, 2016, 28, 1414-1417.	1.3	8
20	Broadband and high-extinction-ratio polarization beam splitter on tilted subwavelength gratings waveguides. Applied Optics, 2020, 59, 7705.	0.9	8
21	Design of a compact silicon-based slot-waveguide crossing composed of an orthogonal strip multimode waveguide and four logarithmical mode converters. Journal Physics D: Applied Physics, 2013, 46, 455102.	1.3	7
22	Integrated TM-through/TE-converted polarization beam splitter based on z-cut lithium niobate-on-insulator platform. Optik, 2022, 255, 168690.	1.4	7
23	A compact silicon-based TM ₀ -to-TM ₂ mode-order converter using shallowly-etched slots. Journal of Optics (United Kingdom), 2020, 22, 015802.	1.0	6
24	Highly-Efficient, Ultra-Compact and Polarization-Insensitive Electro-Absorption Modulator Driven by Hybrid Silicon-Indium Tin Oxide-Based MOS Capacitors. IEEE Journal of Quantum Electronics, 2020, 56, 1-9.	1.0	5
25	On-Chip Beam Splitting Strategies Based on SWG Assisted Directional Coupler for 850 nm Optical Coherence Tomography - A Numerical Study. IEEE Photonics Journal, 2021, 13, 1-12.	1.0	5
26	Scalable silicon-based mode-order converters assisted by tapered metal strip layer. Optics and Laser Technology, 2022, 151, 108028.	2.2	5
27	Silicon-Based TM ₀ -to-TM ₃ Mode-Order Converter Using On-Chip Shallowly Etched Slot Metasurface. Photonics, 2021, 8, 95.	0.9	4
28	Efficient silicon-based higher-order mode converters based on subwavelength grating slots. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2908.	0.9	4
29	Proposal for a compact silicon microring resonator-based polarization demultiplexer. Journal of Nanophotonics, 2015, 9, 093055.	0.4	3
30	Compact silicon hybrid plasmonic microring resonator-based polarization demultiplexer. Japanese Journal of Applied Physics, 2015, 54, 082201.	0.8	3
31	Metal plasmonic assisted silicon-based TE ₀ -to-TM ₁ mode-order converter with 3.5 μ m length. Optics and Laser Technology, 2021, 142, 107251.	2.2	3
32	Design of matrix-diagonal allocator for efficient network-on-chip routers. , 2017, , .		2
33	Broadband and high extinction ratio TE-pass/TM-stop polarizer at 850nm using chirped subwavelength gratings. Applied Optics, 2022, 61, 580.	0.9	2
34	Ultra-Broadband and Low-Loss Silicon-Based Power Splitter Based on Subwavelength Grating-Assisted Multimode Interference Structure. Photonics, 2022, 9, 435.	0.9	2
35	A downlink pre-coding scheme for multi-user distributed MIMO system with antenna selection. , 2013, , .		1
36	Design of a compact crossing for silicon-based slot and strip waveguides. Optical Engineering, 2013, 52, 087105.	0.5	1

#	ARTICLE	IF	CITATIONS
37	Characterization of a compact silicon-based slot-to-strip waveguide crossing. Journal of Modern Optics, 2013, 60, 1981-1991.	0.6	1
38	A compact polarization converter for silicon-based slot waveguides using a hybrid plasmonic effect. Journal of Optics (United Kingdom), 2014, 16, 085502.	1.0	1
39	Etched circular waveguide-based on-chip silicon mode-order converters. Applied Optics, 2021, 60, 6422.	0.9	1
40	Thin-Film Lithium Niobate Based Acousto-Optic Modulation Working at Higher-Order TE1 Mode. Photonics, 2022, 9, 12.	0.9	1
41	Reply to Comment on "Design of a compact silicon-based slot-waveguide crossing composed of an orthogonal strip multimode waveguide and four logarithmical mode converters". Journal Physics D: Applied Physics, 2014, 47, 148002.	1.3	0
42	Design of a compact polarization rotator for silicon-based slot waveguides. , 2014, , .		0
43	Compact polarization beam splitter for silicon-based slot waveguides based on an asymmetrical multimode interference coupler. Proceedings of SPIE, 2015, , .	0.8	0
44	Spectral Compression of Mid-infrared Pulse in a Suspended Silicon Waveguide Taper. , 2018, , .		0
45	Ultra-High Modulation Efficiency and Polarization-Insensitive Cadmium Oxide-Silicon Based Electro-Absorption Modulator. , 2019, , .		0
46	Broadband spectral compression assisted by soliton self-frequency shift in a chalcogenide strip waveguide. , 2017, , .		0
47	Highly-efficient, ultra-broadband and polarization insensitive graphene-silicon based electro-absorption modulator. , 2018, , .		0